

08/737319  
STN Search Summary

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FILE 'CAPLUS' ENTERED AT 13:23:49 ON 22 OCT 2003  
L1 224 S (ISOPENT? (2W) (DIPHOSPHAT? OR PYROPHOSPHAT?)) (2W) ISOMERASE  
L2 42 S L1 AND CAROTEN?  
L3 20 S L2 AND 1900-1998/PY

L3 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:575645 CAPLUS  
TI Genes for enzymes of carotenoid biosynthesis and metab. of  
bacteria and plants and their uses  
IN Cunningham, Francis X.; Sun, Zairen  
SO U.S. Pat. Appl. Publ., 85 pp., Cont.-in-part of U.S. Ser. No. 88,725,  
abandoned.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002102631	A1	20020801	US 1999-323998	19990602
US 5744341	A	19980428	US 1996-624125	19960329 <--
US 6524811	B1	20030225	US 1997-937155	19970925
PRAI US 1996-624125	A3	19960329		
US 1997-937155	A2	19970925		
US 1998-88724	B2	19980602		
US 1998-88725	B2	19980602		

L3 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1998:622597 CAPLUS  
TI Differential expression of two isopentenyl pyrophosphate  
isomerase and enhanced carotenoid accumulation in a  
unicellular chlorophyte  
AU Sun, Zairen; Cunningham, Francis X., Jr.; Gantt, Elisabeth  
SO Proceedings of the National Academy of Sciences of the United States of  
America (1998), 95(19), 11482-11488

L3 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1998:507784 CAPLUS  
TI Identification of genes affecting lycopene formation in *Escherichia coli*  
transformed with carotenoid biosynthetic genes: candidates for  
early genes in isoprenoid biosynthesis  
AU Hemmi, Hisashi; Ohnuma, Shin-ichi; Nagaoka, Kuniaki; Nishino, Tokuzo  
SO Journal of Biochemistry (Tokyo) (1998), 123(6), 1088-1096

L3 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1998:305765 CAPLUS  
TI Expression of an active phytoene synthase from *Erwinia uredovora* and  
biochemical properties of the enzyme  
AU Neudert, Ute; Martinez-Ferez, Isabel M.; Fraser, Paul D.; Sandmann,  
Gerhard  
SO Biochimica et Biophysica Acta (1998), 1392(1), 51-58

L3 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1998:126371 CAPLUS  
TI Using enzymes of carotenoid biosynthesis to alter the  
carotenoid content and fatty acid profile of seeds  
IN Shewmaker, Christine K.  
PA Calgene, Inc., USA; Shewmaker, Christine K.

SO PCT Int. Appl., 70 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9806862	A1	19980219	WO 1997-US14035	19970808 <--
	AU 9740584	A1	19980306	AU 1997-40584	19970808 <--
	EP 925366	A1	19990630	EP 1997-938203	19970808
	CN 1227609	A	19990901	CN 1997-197150	19970808
	BR 9713462	A	20000328	BR 1997-13462	19970808
	JP 2001505409	T2	20010424	JP 1998-509911	19970808
	ZA 9707469	A	19980219	ZA 1997-7469	19970820 <--
PRAI	US 2002092039	A1	20020711	US 2002-41472	20020110
	US 1996-24145P	P	19960809		
	US 1997-908758	A1	19970808		
	WO 1997-US14035	W	19970808		

L3 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1997:679160 CAPLUS

TI Plant genes for enzymes of carotenoid biosynthesis and metabolism and methods of cloning them

IN Cunningham, Francis X., Jr.; Sun, Zairen

PA University of Maryland College Park, USA

SO PCT Int. Appl., 89 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9736998	A1	19971009	WO 1997-US540	19970128 <--
	US 5744341	A	19980428	US 1996-624125	19960329 <--
	CA 2250096	AA	19971009	CA 1997-2250096	19970128 <--
	AU 9715784	A1	19971022	AU 1997-15784	19970128 <--
	AU 719727	B2	20000518		
	EP 889952	A1	19990113	EP 1997-902017	19970128
	BR 9708375	A	19990803	BR 1997-8375	19970128
	JP 2000507451	T2	20000620	JP 1997-535243	19970128
	ZA 9701941	A	19970910	ZA 1997-1941	19970306 <--
PRAI	US 1996-624125	A	19960329		
	WO 1997-US540	W	19970128		

L3 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1997:633646 CAPLUS

TI Terpenoid biosynthesis from 1-deoxy-D-xylulose in higher plants by intramolecular skeletal rearrangement

AU Arigoni, Duilio; Sagner, Silvia; Latzel, Christoph; Eisenreich, Wolfgang; Bacher, Adelbert; Zenk, Meinhart

SO Proceedings of the National Academy of Sciences of the United States of America (1997), 94(20), 10600-10605

L3 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1997:506702 CAPLUS  
 TI Improved transformation of and expression in *Phaffia* by using the promoter  
 of glycolytic pathway gene or ribosomal protein gene  
 IN Verdoes, Jan Cornelis; Wery, Jan  
 PA Gist-Brocades B.V., Neth.; Ooijen, Albert Johannes Joseph; Verdoes, Jan  
 Cornelis; Wery, Jan  
 SO PCT Int. Appl., 117 pp.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9723633	A1	19970703	WO 1996-EP5887	19961223 <--
EP 780474	A1	19970625	EP 1995-203620	19951222 <--
CA 2241267	AA	19970703	CA 1996-2241267	19961223 <--
AU 9713087	A1	19970717	AU 1997-13087	19961223 <--
AU 725340	B2	20001012		
EP 870042	A1	19981014	EP 1996-944694	19961223 <--
JP 2000507087	T2	20000613	JP 1997-523340	19961223
US 6329141	B1	20011211	US 1998-91725	19981119
PRAI EP 1995-203620	A	19951222		
EP 1996-200943	A	19960411		
WO 1996-EP5887	W	19961223		

L3 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1997:394583 CAPLUS  
 TI Expression of an exogenous isopentenyl diphosphate  
 isomerase gene enhances isoprenoid biosynthesis in *Escherichia coli*  
 AU Kajiwara, Susumu; Fraser, Paul D.; Kondo, Keiji; Misawa, Norihiko  
 SO Biochemical Journal (1997), 324(2), 421-426

L3 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1996:75083 CAPLUS  
 TI Open reading frame 176 in the photosynthesis gene cluster of *Rhodobacter capsulatus* encodes idi, a gene for isopentenyl diphosphate isomerase  
 AU Hahn, Frederick M.; Baker, Jonathan A.; Poulter, C. Dale  
 SO Journal of Bacteriology (1996), 178(3), 619-24

L3 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1994:478020 CAPLUS  
 TI Light-stimulated carotenoid biosynthesis during transformation  
 of maize etioplasts is regulated by increased activity of  
 isopentenyl pyrophosphate isomerase  
 AU Albrecht, Manuela; Sandmann, Gerhard  
 SO Plant Physiology (1994), 105(2), 529-534

L3 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1992:230115 CAPLUS  
 TI Herbicide clomazone does not inhibit in vitro geranylgeranyl synthesis  
 from mevalonate  
 AU Weimer, Monte R.; Balke, Nelson E.; Buhler, Douglas D.  
 SO Plant Physiology (1992), 98(2), 427-32

L3 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1991:2210 CAPLUS  
TI Site of clomazone action in tolerant-soybean and susceptible-cotton  
photomixotrophic cell suspension cultures  
AU Norman, Michael A.; Liebl, Rex A.; Widholm, Jack M.  
SO Plant Physiology (1990), 94(2), 704-9

L3 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1990:547194 CAPLUS  
TI The herbicide Command does not inhibit the prenyl diphosphate-forming  
enzymes in plastids  
AU Luetzow, Manfred; Beyer, Peter; Kleinig, Hans  
SO Zeitschrift fuer Naturforschung, C: Journal of Biosciences (1990  
, 45(7-8), 856-8

L3 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1987:454106 CAPLUS  
TI Interconversion of prenyl pyrophosphates and subsequent reactions in the  
presence of FMC 57020  
AU Sandmann, Gerhard; Boeger, Peter  
SO Zeitschrift fuer Naturforschung, C: Journal of Biosciences (1987  
, 42(6), 803-7

L3 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1987:153150 CAPLUS  
TI Metabolism of plastid terpenoids: in vitro inhibition of phytoene  
synthesis by phenethyl pyrophosphate derivatives  
AU Dogbo, Odette; Bardat, Francoise; Quennemet, Joelle; Camara, Bilal  
SO FEBS Letters (1987), 210(2), 211-15

L3 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1974:93244 CAPLUS  
TI Early photoinduced enzymes of photoinduced carotenogenesis in a  
Mycobacterium species  
AU Johnson, Janice H.; Reed, Brent C.; Rilling, Hans C.  
SO Journal of Biological Chemistry (1974), 249(2), 402-6

L3 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1966:475484 CAPLUS  
TI Conversion of mevalonic acid to .gamma.,.gamma.-dimethylallyl  
pyrophosphate by Mycoplasma  
AU Henrikson, Carl V.; Smith, Paul F.  
SO Journal of Bacteriology (1966), 92(3), 701-6

L3 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1963:34445 CAPLUS  
TI Oxygen requirement in carotenogenesis  
AU Yokohama, , H.; Chichester, , C.; Nakayama, T.  
CS Univ. of California., Davis  
SO Biochemical Journal (1962), 85, 10P-11P